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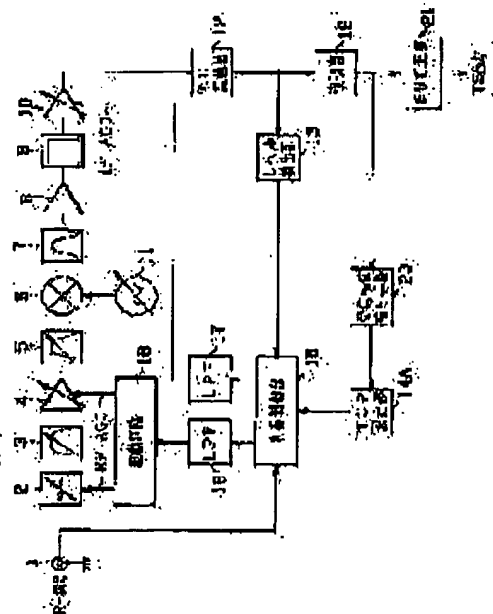
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(54) AUTOMATIC GAIN CONTROL CIRCUIT AND RECEIVER

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an automatic gain control circuit which can obtain stable and excellent reception quality without being affected by a reception channel nor a received radio wave condition and a receiver which has the automatic gain control circuit.

SOLUTION: A reception quality detecting means is provided which detects reception quality such as dispersion, error correction rate, and error rate of a constellation, and a reference level (TOP) value for switching between IF AGC operation and RF AGC operation is varied according to the reception quality to perform the best reference level (TOP) setting. Consequently, deterioration in the reception quality due to nonlinear distortion and C/N deficiency is decided from high-frequency performance differences by reception channels and a difference in received radio wave condition such as the levels of adjacent channels, thereby setting the best reception conditions.



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